

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 08/466,38/C
Source: JFW/J6
Date Processed by STIC: 11/8/04

ENTERED



IFW16

RAW SEQUENCE LISTING
PATENT APPLICATION: US/08/466,381C

DATE: 11/08/2004
TIME: 16:21:47

Input Set : A:\41426-C.txt
Output Set: N:\CRF4\11082004\H466381C.raw

3 <110> APPLICANT: Israeli, Ron S.
 4 Heston, Warren D.W.
 5 Fair, William R.
 7 <120> TITLE OF INVENTION: PROSTATE-SPECIFIC MEMBRANE ANTIGEN
 9 <130> FILE REFERENCE: 1769/41426-C/JPW/CY
 11 <140> CURRENT APPLICATION NUMBER: US 08/466,381C
 12 <141> CURRENT FILING DATE: 1995-06-06
 14 <150> PRIOR APPLICATION NUMBER: US 08/403,803
 15 <151> PRIOR FILING DATE: 1995-03-17
 17 <150> PRIOR APPLICATION NUMBER: PCT/US93/10624
 18 <151> PRIOR FILING DATE: 1993-11-05
 20 <150> PRIOR APPLICATION NUMBER: US 07/973,337
 21 <151> PRIOR FILING DATE: 1992-11-05
 23 <160> NUMBER OF SEQ ID NOS: 38
 25 <170> SOFTWARE: PatentIn version 3.1
 27 <210> SEQ ID NO: 1
 28 <211> LENGTH: 2653
 29 <212> TYPE: DNA
 30 <213> ORGANISM: Human
 32 <400> SEQUENCE: 1
 33 ctcaaaagg gccggatttc cttctcctgg aggcatgt tgcctctc tctcgctcg 60
 35 attggttcag tgcactctag aaacactgtc gtgggtggaga aactggaccc caggtctgga 120
 37 gcgaattcca qcctgcaggg ctgataaqcg aggcattagt gagattgaga gagactttac 180
 39 cccggcgtgg tgggtggagg gcgcgcagta gagcagcagc acaggcgccggtcccggag 240
 41 cccggctctg ctgcgcgcga gatgtggaaat ctccttcacg aaaccgactc ggctgtggcc 300
 43 accgcgcgcc gcccgcgtg gctgtgcgtt ggggcgtgg tgctggcggttgctt 360
 45 ctccctcggt tcctttcgg gtggttata aaatcctcca atgaagctac taacattact 420
 47 ccaaagcata atatgaaagc atttttggat gaattgaaag ctgagaacat caagaagttc 480
 49 ttatataatt ttacacagat accacattta gcaggaacag aacaaaactt tcagcttgca 540
 51 aagcaaattc aatcccagtg gaaagaattt ggctggatt ctgttgagct agcacattat 600
 53 gatgtccctgt tgccttaccc aaataagact catcccaact acatctcaat aattaatgaa 660
 55 gatggaaatg agatttcaa cacatcatta tttgaaccac ctccctccagg atatgaaaat 720
 57 gtttcggata ttgtaccacc tttcagtgct ttctctcctc aaggaatgcc agagggcgat 780
 59 ctatgtatg ttaactatgc acgaactgaa gacttctta aattgaaacg ggacatgaaa 840
 61 atcaattgtc ctggaaaaat tgcataattgcc agatgtggaa aagtttcag agaaataag 900
 63 gttaaaaatg cccagctggc agggggccaaa ggagtcatc tctactccga ccctgctgac 960
 65 tactttgctc ctgggggtgaa gtcctatcca gatgggtggaa atcttcctgg agtgtgggtc 1020
 67 cagcgtggaa atatcctaaa tctgaatggt gcaggagacc ctctcacacc agtttacca 1080
 69 gcaaatgaaat atgcttatag gcgtggaaatt gcagaggctg ttggcttcc aagtattcct 1140
 71 gttcatccaa ttggatacta tgcacatgc aagtccttag aaaaaatggg tgctcagca 1200
 73 ccaccagata gcagctggag aggaagtctc aaagtgcctt acaatgtgg acctggcttt 1260
 75 actggaaact ttctacaca aaaagtcaag atgcacatcc actctaccaa tgaagtgaca 1320
 77 agaatttaca atgtgatagg tactctcaga ggagcagtgg aaccagacag atatgtcatt 1380

RAW SEQUENCE LISTING

PATENT APPLICATION: US/08/466,381C

DATE: 11/08/2004

TIME: 16:21:47

Input Set : A:\41426-C.txt

Output Set: N:\CRF4\11082004\H466381C.raw

79	ctgggaggtc	accgggactc	atgggtgttt	ggtgttattg	accctcagag	tggagcagct	1440										
81	gttggcatcg	aaattgtgag	gagcttgaa	acactqaaaa	aggaagggtg	gagacacataga	1500										
83	agaacaattt	tgtttgcag	ctgggatgca	gaagaatttg	gtcttcttg	ttctactgag	1560										
85	tggcagagg	agaattcaag	actcctcaa	gagcgtggcg	tggcttatat	taatgctgac	1620										
87	tcatctatag	aaggaaacta	cactctgaga	gttgattgt	caccgctgtat	gtacagcttg	1680										
89	gtacacaacc	taacaaaaga	gctgaaaagc	cctgatgaag	gctttgaagg	caaatactctt	1740										
91	tatgaaaagt	ggactaaaaa	aagtccctcc	ccagagttca	gtggcatgcc	caggataaagc	1800										
93	aaattggat	ctggaaatga	tttgagggt	tttccaac	gacttggaaat	tgcttcaggg	1860										
95	agagcacgg	atactaaaaa	ttggaaaca	aacaattca	gcggctatcc	actgtatcac	1920										
97	agtgtctatg	aaacatatga	gttggtgaa	aagttttatg	atccaatgtt	taaatatcac	1980										
99	ctcaactgtgg	cccagggtcg	aggaggatg	gtgttgagc	tagccaattc	catagtgctc	2040										
101	ccttttgatt	gtcgagatta	tgctgttagt	ttaagaaagt	atgctgacaa	aatctacagt	2100										
103	atttctatga	aacatccaca	ggaaatgaag	acatacagt	tatcatttga	ttcactttt	2160										
105	tctgcagtaa	agaattttac	agaaattgt	tccaagttca	gtgagagact	ccaggactt	2220										
107	gacaaaagca	acccaatagt	attaagaatg	atgaatgatc	aactcatgtt	tctggaaaga	2280										
109	gcatttattt	atccattagg	gttaccagac	aggcctttt	ataggcatgt	catctatgt	2340										
111	ccaagcagcc	acaacaagta	tgcagggag	tcattccag	gaatttatga	tgctctgtt	2400										
113	gatattgaaa	gcaaaagtgg	cccttccaag	gcctggggag	aagtgaagag	acagatttat	2460										
115	gttgcagct	tcacagtgc	ggcagctgc	gagacttga	gtgaagtagc	ctaagaggat	2520										
117	tcttttagaga	atccgtattt	aatttgtgt	gtatgtact	cagaagaat	cgtaatgggt	2580										
119	atattgataa	atttaaaat	tggtatattt	gaaataaagt	tgaatattat	atataaaaaaa	2640										
121	aaaaaaaaaa	aaa					2653										
124	<210>	SEQ ID NO:	2														
125	<211>	LENGTH:	750														
126	<212>	TYPE:	PRT														
127	<213>	ORGANISM:	Human														
129	<400>	SEQUENCE:	2														
131	Met	Trp	Asn	Ile	Leu	His	Glu	Thr	Asp	Ser	Ala	Val	Ala	Thr	Ala	Arg	
132	1				5			10						15			
135	Arg	Pro	Arg	Trp	Leu	Cys	Ala	Gly	Ala	Leu	Val	Leu	Ala	Gly	Gly	Phe	
136					20			25						30			
139	Phe	Leu	Leu	Gly	Phe	Leu	Phe	Gly	Trp	Phe	Ile	Lys	Ser	Ser	Asn	Glu	
140					35			40						45			
143	Ala	Thr	Asn	Ile	Thr	Pro	Lys	His	Asn	Met	Lys	Ala	Phe	Leu	Asp	Glu	
144					50			55						60			
147	Leu	Lys	Ala	Glu	Asn	Ile	Lys	Lys	Phe	Leu	Tyr	Asn	Phe	Thr	Gln	Ile	
148					65			70			75			80			
151	Pro	His	Leu	Ala	Gly	Thr	Glu	Gln	Asn	Phe	Gln	Leu	Ala	Lys	Gln	Ile	
152					85			90						95			
155	Gln	Ser	Gln	Trp	Lys	Glu	Phe	Gly	Leu	Asp	Ser	Val	Glu	Leu	Ala	His	
156					100			105						110			
159	Tyr	Asp	Val	Leu	Leu	Ser	Tyr	Pro	Asn	Lys	Thr	His	Pro	Asn	Tyr	Ile	
160					115			120			125			125			
163	Ser	Ile	Ile	Asn	Glu	Asp	Gly	Asn	Glu	Ile	Phe	Asn	Thr	Ser	Leu	Phe	
164					130			135			140						
167	Glu	Pro	Pro	Pro	Pro	Gly	Tyr	Glu	Asn	Val	Ser	Asp	Ile	Val	Pro	Pro	
168					145			150			155			160			
171	Phe	Ser	Ala	Phe	Ser	Pro	Gln	Gly	Met	Pro	Glu	Gly	Asp	Leu	Val	Tyr	
172					165			170			175						

RAW SEQUENCE LISTING

PATENT APPLICATION: US/08/466,381C

DATE: 11/08/2004

TIME: 16:21:47

Input Set : A:\41426-C.txt

Output Set: N:\CRF4\11082004\H466381C.raw

175 Val Asn Tyr Ala Arg Thr Glu Asp Phe Phe Lys Leu Glu Arg Asp Met
 176 180 185 190
 179 Lys Ile Asn Cys Ser Gly Lys Ile Val Ile Ala Arg Tyr Gly Lys Val
 180 195 200 205
 183 Phe Arg Gly Asn Lys Val Lys Asn Ala Gln Leu Ala Gly Ala Lys Gly
 184 210 215 220
 187 Val Ile Leu Tyr Ser Asp Pro Ala Asp Tyr Phe Ala Pro Gly Val Lys
 188 225 230 235 240
 191 Ser Tyr Pro Asp Gly Trp Asn Leu Pro Gly Gly Val Gln Arg Gly
 192 245 250 255
 195 Asn Ile Leu Asn Leu Asn Gly Ala Gly Asp Pro Leu Thr Pro Gly Tyr
 196 260 265 270
 199 Pro Ala Asn Glu Tyr Ala Tyr Arg Arg Gly Ile Ala Glu Ala Val Gly
 200 275 280 285
 203 Leu Pro Ser Ile Pro Val His Pro Ile Gly Tyr Tyr Asp Ala Gln Lys
 204 290 295 300
 207 Leu Leu Glu Lys Met Gly Gly Ser Ala Pro Pro Asp Ser Ser Trp Arg
 208 305 310 315 320
 211 Gly Ser Leu Lys Val Pro Tyr Asn Val Gly Pro Gly Phe Thr Gly Asn
 212 325 330 335
 215 Phe Ser Thr Gln Lys Val Lys Met His Ile His Ser Thr Asn Glu Val
 216 340 345 350
 219 Thr Arg Ile Tyr Asn Val Ile Gly Thr Leu Arg Gly Ala Val Glu Pro
 220 355 360 365
 223 Asp Arg Tyr Val Ile Leu Gly Gly His Arg Asp Ser Trp Val Phe Gly
 224 370 375 380
 227 Gly Ile Asp Pro Gln Ser Gly Ala Ala Val Val His Glu Ile Val Arg
 228 385 390 395 400
 231 Ser Phe Gly Thr Leu Lys Lys Glu Gly Trp Arg Pro Arg Arg Thr Ile
 232 405 410 415
 235 Leu Phe Ala Ser Trp Asp Ala Glu Glu Phe Gly Leu Leu Gly Ser Thr
 236 420 425 430
 239 Glu Trp Ala Glu Glu Asn Ser Arg Leu Leu Gln Glu Arg Gly Val Ala
 240 435 440 445
 243 Tyr Ile Asn Ala Asp Ser Ser Ile Glu Gly Asn Tyr Thr Leu Arg Val
 244 450 455 460
 247 Asp Cys Thr Pro Leu Met Tyr Ser Leu Val His Asn Leu Thr Lys Glu
 248 465 470 475 480
 251 Leu Lys Ser Pro Asp Glu Gly Phe Glu Gly Lys Ser Leu Tyr Glu Ser
 252 485 490 495
 255 Trp Thr Lys Lys Ser Pro Ser Pro Glu Phe Ser Gly Met Pro Arg Ile
 256 500 505 510
 259 Ser Lys Leu Gly Ser Gly Asn Asp Phe Glu Val Phe Phe Gln Arg Leu
 260 515 520 525
 263 Lys Ile Ala Ser Gly Arg Ala Arg Tyr Thr Lys Asn Trp Glu Thr Asn
 264 530 535 540
 267 Lys Phe Ser Gly Tyr Pro Leu Tyr His Ser Val Tyr Glu Thr Tyr Glu
 268 545 550 555 560
 271 Leu Val Glu Lys Phe Tyr Asp Pro Met Phe Lys Tyr His Leu Thr Val

RAW SEQUENCE LISTING
PATENT APPLICATION: US/08/466,381C

DATE: 11/08/2004
TIME: 16:21:47

Input Set : A:\41426-C.txt
Output Set: N:\CRF4\11082004\H466381C.raw

272	565	570	575	
275	Ala Gln Val Arg Gly Gly Met Val Phe Glu Leu Ala Asn Ser Ile Val			
276	580	585	590	
279	Leu Pro Phe Asp Cys Arg Asp Tyr Ala Val Val Leu Arg Lys Tyr Ala			
280	595	600	605	
283	Asp Lys Ile Tyr Ser Ile Ser Met Lys His Pro Gln Glu Met Lys Thr			
284	610	615	620	
287	Tyr Ser Val Ser Phe Asp Ser Leu Phe Ser Ala Val Lys Asn Phe Thr			
288	625	630	635	640
291	Glu Ile Ala Ser Lys Phe Ser Glu Arg Leu Gln Asp Phe Asp Lys Ser			
292	645	650	655	
295	Asn Pro Ile Val Leu Arg Met Met Asn Asp Gln Leu Met Phe Leu Glu			
296	660	665	670	
299	Arg Ala Phe Ile Asp Pro Leu Gly Leu Pro Asp Arg Pro Phe Tyr Arg			
300	675	680	685	
303	His Val Ile Tyr Ala Pro Ser Ser His Asn Lys Tyr Ala Gly Glu Ser			
304	690	695	700	
307	Phe Pro Gly Ile Tyr Asp Ala Leu Phe Asp Ile Glu Ser Lys Val Asp			
308	705	710	715	720
311	Pro Ser Lys Ala Trp Gly Glu Val Lys Arg Gln Ile Tyr Val Ala Ala			
312	725	730	735	
315	Phe Thr Val Gln Ala Ala Ala Glu Thr Leu Ser Glu Val Ala			
316	740	745	750	
319	<210> SEQ ID NO: 3			
320	<211> LENGTH: 8			
321	<212> TYPE: PRT			
322	<213> ORGANISM: Human			
324	<400> SEQUENCE: 3			
326	Ser Leu Tyr Glu Ser Trp Thr Lys			
327	1	5		
330	<210> SEQ ID NO: 4			
331	<211> LENGTH: 15			
332	<212> TYPE: PRT			
333	<213> ORGANISM: Human			
335	<220> FEATURE:			
336	<221> NAME/KEY: MISC_FEATURE			
337	<222> LOCATION: (6)...(7)			
338	<223> OTHER INFORMATION: Xaa=unknown			
341	<400> SEQUENCE: 4			
W-->	343 Ser Tyr Pro Asp Gly Xaa Xaa Leu Pro Gly Gly Gly Val Gln Arg			
344	1	5	10	15
347	<210> SEQ ID NO: 5			
348	<211> LENGTH: 7			
349	<212> TYPE: PRT			
350	<213> ORGANISM: Human			
352	<400> SEQUENCE: 5			
354	Phe Tyr Asp Pro Met Phe Lys			
355	1	5		
358	<210> SEQ ID NO: 6			

RAW SEQUENCE LISTING DATE: 11/08/2004
 PATENT APPLICATION: US/08/466,381C TIME: 16:21:47

Input Set : A:\41426-C.txt
 Output Set: N:\CRF4\11082004\H466381C.raw

359 <211> LENGTH: 9
 360 <212> TYPE: PRT
 361 <213> ORGANISM: Human
 363 <400> SEQUENCE: 6
 365 Ile Tyr Asn Val Ile Gly Thr Leu Lys
 366 1 5
 369 <210> SEQ ID NO: 7
 370 <211> LENGTH: 22
 371 <212> TYPE: PRT
 372 <213> ORGANISM: Human
 374 <220> FEATURE:
 375 <221> NAME/KEY: MISC_FEATURE
 376 <222> LOCATION: (4)..(5)
 377 <223> OTHER INFORMATION: Xaa=unknown
 380 <400> SEQUENCE: 7
 W--> 382 Phe Leu Tyr Xaa Xaa Thr Gln Ile Pro His Leu Ala Gly Thr Glu Gln
 383 1 5 10 15
 386 Asn Phe Gln Leu Ala Lys
 387 20
 390 <210> SEQ ID NO: 8
 391 <211> LENGTH: 17
 392 <212> TYPE: PRT
 393 <213> ORGANISM: Human
 395 <400> SEQUENCE: 8
 397 Gly Val Ile Leu Tyr Ser Asp Pro Ala Asp Tyr Phe Ala Pro Asp Val
 398 1 5 10 15
 401 Lys
 405 <210> SEQ ID NO: 9
 406 <211> LENGTH: 17
 407 <212> TYPE: PRT
 408 <213> ORGANISM: Human
 410 <400> SEQUENCE: 9
 412 Pro Val Ile Leu Tyr Ser Asp Pro Ala Asp Tyr Phe Ala Pro Gly Val
 413 1 5 10 15
 416 Lys
 420 <210> SEQ ID NO: 10
 421 <211> LENGTH: 15
 422 <212> TYPE: PRT
 423 <213> ORGANISM: Human
 425 <400> SEQUENCE: 10
 427 Ala Phe Ile Asp Pro Leu Gly Leu Pro Asp Arg Pro Phe Tyr Arg
 428 1 5 10 15
 431 <210> SEQ ID NO: 11
 432 <211> LENGTH: 19
 433 <212> TYPE: PRT
 434 <213> ORGANISM: Human
 436 <400> SEQUENCE: 11
 438 Tyr Ala Gly Glu Ser Phe Pro Gly Ile Tyr Asp Ala Leu Phe Asp Ile
 439 1 5 10 15

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 11/08/2004
PATENT APPLICATION: US/08/466,381C TIME: 16:21:48

Input Set : A:\41426-C.txt
Output Set: N:\CRF4\11082004\H466381C.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:4; Xaa Pos. 6,7
Seq#:7; Xaa Pos. 4,5
Seq#:12; Xaa Pos. 14,15
Seq#:13; N Pos. 12
Seq#:14; N Pos. 6
Seq#:15; N Pos. 12
Seq#:16; N Pos. 6
Seq#:17; N Pos. 3,6
Seq#:18; N Pos. 11,15
Seq#:19; N Pos. 3
Seq#:20; N Pos. 18
Seq#:23; N Pos. 9
Seq#:24; N Pos. 12
Seq#:25; N Pos. 9
Seq#:26; N Pos. 9
Seq#:27; N Pos. 82,83,84,193,196,197,217,218,219,232,233,237,238,253,254
Seq#:27; N Pos. 255,256,263,600,601,721,722,723,724
Seq#:28; N Pos. 224,255,412,413,414,433,520,521,536,537,538,539,540,541,542
Seq#:28; N Pos. 543
Seq#:29; N Pos. 214,377

VERIFICATION SUMMARY
PATENT APPLICATION: US/08/466,381C

DATE: 11/08/2004
TIME: 16:21:48

Input Set : A:\41426-C.txt
Output Set: N:\CRF4\11082004\H466381C.raw

L:343 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0
L:382 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0
L:459 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0
L:482 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0
L:500 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0
L:518 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0
L:536 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0
L:560 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0
L:584 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:0
L:602 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:0
L:620 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:0
L:662 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:0
L:680 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:0
L:698 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:0
L:716 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:0
L:787 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:60
L:791 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:180
L:793 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:240
L:803 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:540
L:805 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:600
L:809 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:720
L:866 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:180
L:868 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:240
L:872 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:360
L:874 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:420
L:876 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:480
L:878 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:540
L:907 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:180
L:913 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:360